For Research Use Only

Profilin 1 Monoclonal antibody

Catalog Number:67390-1-Ig Featured Product 4 Publications

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Basic Information

Catalog Number:
67390-1-Ig

Size:
150ul , Concentration: 2300 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2b

Immunogen Catalog Number:
AG29206

GenBank Accession Number:
BC006768

GeneID (NCBI):
5216

Full Name:
profilin 1

Calculated MW:
140 aa, 15 kDa

Observed MW:
13 kDa

Purification Method:
Protein A purification

CloneNo.:
3A12E8

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:4000-1:16000
IF 1:400-1:1600

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
IF, IP, WB

Species Specificity:
Human, Mouse, Rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : LNCaP cells, HAP1, HSC-T6 cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, PC-12 cells, NIH/3T3 cells, Neuro-2a cells

IHC : human colon cancer tissue,

IF : HeLa cells, HAP1 cells

Background Information

Profilin-1 (PFN1) plays an important role in the control of actin dynamics, and could represent an important therapeutic target in several diseases. PFN1 is identified as a huntingtin aggregation inhibitor, and may serves as a tumor-suppressor. PFN1 is crucial for the conversion of monomeric (G)-actin to filamentous (F)-actin. Amyotrophic lateral sclerosis (ALS) is a late-onset neurodegenerative disorder resulting from motor neuron death. Cells expressing PFN1 mutants contain ubiquitinated, insoluble aggregates that in many cases contain the ALS-associated protein TDP-43. Recently, PFN1 is a potential biomarker for bladder cancer aggressiveness and may be of great clinical importance.

Notable Publications

Author	Pubmed ID	Journal	Application
Yutaka Ogawa	34934922	iScience	WB,IF
Liping Mai	37323855	Diabetes Metab Syndr Obes	WB
Riham Ayoubi	37576538	F1000Res	WB,IF,IP

Storage

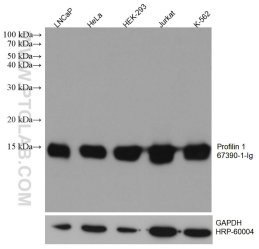
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

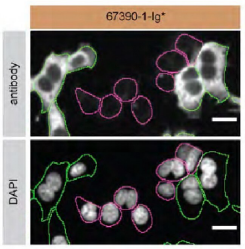
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

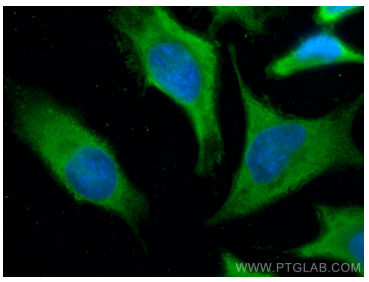
Selected Validation Data



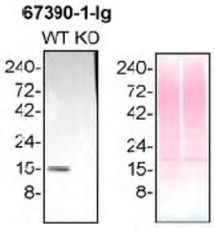
Various lysates were subjected to SDS PAGE followed by western blot with 67390-1-Ig (Profilin 1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



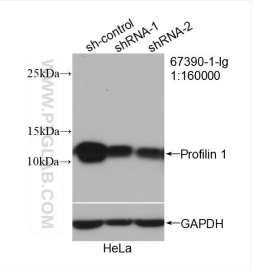
HAP1 WT cells (green outline) and PFN1 KO cells (magenta outline) labelled with a green or a far-red fluorescence dye, respectively. Cells with 4% PFA and stained with 67390-1-Ig at 1.0 µg/ml plus DAPI. Bars = 10 µm. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



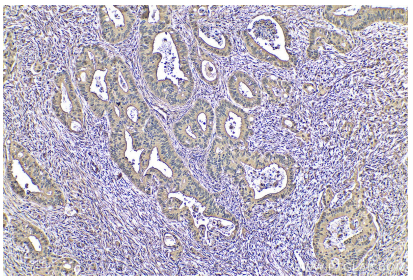
Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Profilin 1 antibody (67390-1-Ig, Clone: 3A12E8) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



HAP1 (WT and PFN1 KO) lysates prepared with NP-40 buffer, 50 µg protein loaded. 67390-1-Ig incubated at 1:30,000 at 4°C overnight in 5% milk in TBST. Ponceau stained transfers shown on right. Data provided by YCharOS, an open science company with a mission to validate commercial antibodies to improve scientific reproducibility and transparency.



WB result of Profilin 1 antibody (67390-1-Ig; 1:160000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Profilin 1 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67390-1-Ig (Profilin 1 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).